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Oxidative stress and protection against reactive oxygen species in the pre-implantation embryo and its surro

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#	Paper	IF	Citations
967	Assessment of Mammalian Embryo Quality. 2002 ,		2
966	Analysis of differential messenger RNA expression between bovine blastocysts produced in different culture systems: implications for blastocyst quality. <i>Biology of Reproduction</i> , 2002 , 66, 589-95	3.9	267
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961	Glutathione and adenosine triphosphate content of in vivo and in vitro matured porcine oocytes. 2003 , 64, 492-8		69
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551	Protective potential of α -tocopherol supplementation against ethanol-induced dysmorphogenesis in postimplantation murine embryos. 2015 , 4, 251-257		
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503	Reduction in cytoplasmic lipid content in bovine embryos cultured in vitro with linoleic acid in semi-defined medium is correlated with increases in cryotolerance. <i>Zygote</i> , 2016 , 24, 485-94	1.6	7
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469	Superoxide dismutase and taurine supplementation improves in vitro blastocyst yield from poor-quality feline oocytes. <i>Theriogenology</i> , 2016 , 85, 922-927	2.8	10
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461	Transcriptomic evaluation of bovine blastocysts obtained from peri-pubertal oocyte donors. <i>Theriogenology</i> , 2017 , 93, 111-123	2.8	12
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450	Supplementation of culture medium with L-carnitine improves the development and cryotolerance of in vitro-produced porcine embryos. 2017 , 29, 2357-2366		7
449	Beneficial effects of glutathione supplementation during vitrification of mouse oocytes at the germinal vesicle stage on their preimplantation development following maturation and fertilization in vitro. 2017 , 76, 98-103		17
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447	Insulin during in vitro oocyte maturation has an impact on development, mitochondria, and cytoskeleton in bovine day 8 blastocysts. <i>Theriogenology</i> , 2017 , 101, 15-25	2.8	13

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442	Protective Effects of Coenzyme Q10 on Developmental Competence of Porcine Early Embryos. 2017 , 23, 849-858		9
441	Potential role of retinoids in ovarian physiology and pathogenesis of polycystic ovary syndrome. 2017 , 469, 87-93		8
440	Role of oxidant-antioxidant balance in reproduction of domestic animals. 2017 , 57, 1588		13
439	Effects of melatonin on maturation, histone acetylation, autophagy of porcine oocytes and subsequent embryonic development. 2017 , 88, 1298-1310		17
438	Effects of supplementation of medium with different antioxidants during in vitro maturation of bovine oocytes on subsequent embryo production. <i>Reproduction in Domestic Animals</i> , 2017 , 52, 561-569	1.6	64
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435	Possible effects of melatonin against rat uterus exposure to bisphenol A during neonatal period. 2017 , 24, 26829-26838		7
434	The transcription factor ATF7 mediates fertilization-induced gene expression changes in mouse liver. 2017 , 7, 1598-1610		2
433	NMR-based untargeted metabolomic study of hydrogen peroxide-induced development and diapause termination in brine shrimp. 2017 , 24, 118-126		1
432	Autophagy inhibition of immature oocytes during vitrification-warming and in vitro mature activates apoptosis via caspase-9 and -12 pathway. 2017 , 217, 89-93		11
431	Melatonin enhances the developmental competence of porcine somatic cell nuclear transfer embryos by preventing DNA damage induced by oxidative stress. <i>Scientific Reports</i> , 2017 , 7, 11114	4.9	33
430	Evaluating lipopolysaccharide-induced oxidative stress in bovine granulosa cells. <i>Journal of Assisted Reproduction and Genetics</i> , 2017 , 34, 1619-1626	3.4	10
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425	Supplementation of lycopene in maturation media improves bovine embryo quality in vitro. <i>Theriogenology</i> , 2017 , 103, 173-184	2.8	17
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418	Oviduct: roles in fertilization and early embryo development. 2017 , 232, R1-R26		107
417	Pyrazinamide-induced hepatotoxicity and gender differences in rats as revealed by a H NMR based metabolomics approach. 2017 , 6, 17-29		14
416	Sodium fluoride exposure exerts toxic effects on porcine oocyte maturation. <i>Scientific Reports</i> , 2017 , 7, 17082	4.9	24
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413	Carboxyethylgermanium sesquioxide (Ge-132) treatment during in vitro culture protects fertilized porcine embryos against oxidative stress induced apoptosis. 2017 , 63, 581-590		7
412	The Role of Antioxidant Enzymes in the Ovaries. 2017 , 2017, 4371714		60
411	Metabolomic profiles investigation on athletes' urine 35 minutes after an 800-meter race. 2017 , 57, 839-849		7

410	Oxidative Stress Alters the Profile of Transcription Factors Related to Early Development on Produced Embryos. 2017 , 2017, 1502489		22
409	Protective Effect of Icariin on the Development of Preimplantation Mouse Embryos against Hydrogen Peroxide-Induced Oxidative Injury. 2017 , 2017, 2704532		14
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407	Role of Antioxidants in Assisted Reproductive Techniques. 2017 , 35, 77-93		48
406	Dual effect of fetal bovine serum on early development depends on stage-specific reactive oxygen species demands in pigs. 2017 , 12, e0175427		19
405	Cellular and exosome mediated molecular defense mechanism in bovine granulosa cells exposed to oxidative stress. 2017 , 12, e0187569		75
404	Low oxygen tension increases mitochondrial membrane potential and enhances expression of antioxidant genes and implantation protein of mouse blastocyst cultured in vitro. 2017 , 10, 47		25
403	Maternal dietary zinc supplementation enhances the epigenetic-activated antioxidant ability of chick embryos from maternal normal and high temperatures. 2017 , 8, 19814-19824		20
402	Reactive oxygen species-mediated unfolded protein response pathways in preimplantation embryos. 2017 , 18, 1-9		12
401	Sperm DNA fragmentation: laboratory and clinical aspects. 2017 , 6, S675-S677		1
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399	Protective effect of Chitosan nanoparticles against the inhibitory effect of linoleic acid supplementation on maturation and developmental competence of bovine oocytes. <i>Theriogenology</i> , 2018 , 114, 143-148	2.8	3
398	Influence of maternal nutrition and heat stress on bovine oocyte and embryo development. 2018 , 6, S1-S5		8
397	Oxidative and endoplasmic reticulum stress defense mechanisms of bovine granulosa cells exposed to heat stress. <i>Theriogenology</i> , 2018 , 110, 130-141	2.8	50
396	Effects of Zinc Supplementation During In Vitro Maturation on Meiotic Maturation of Oocytes and Developmental Capacity in Yak. 2018 , 185, 89-97		4
395	Stress preconditioning of rooster semen before cryopreservation improves fertility potential of thawed sperm. 2018 , 97, 2582-2590		33
394	Time to re-evaluate ART protocols in the light of advances in knowledge about methylation and epigenetics: an opinion paper. 2018 , 21, 156-162		9
393	Beneficial effects of melatonin on in vitro embryo production from juvenile goat oocytes. 2018 , 30, 253-261		27

392	Fatty acid synthase knockout impairs early embryonic development via induction of endoplasmic reticulum stress in pigs. 2018 , 233, 4225-4234		2
391	A simple, water soluble flavone-based fluorescent probe for fast detection of Cys. 2018 , 355, 72-77		7
390	hace1 Influences zebrafish cardiac development via ROS-dependent mechanisms. 2018 , 247, 289-303		8
389	C-Phycocyanin supplementation during in vitro maturation enhances pre-implantation developmental competence of parthenogenetic and cloned embryos in pigs. <i>Theriogenology</i> , 2018 , 106, 69-78	2.8	11
388	Influence of resveratrol pretreatment on thawed bovine embryo quality and mitochondrial DNA copy number. <i>Theriogenology</i> , 2018 , 106, 271-278	2.8	13
387	Maternal oxidative stress and reproduction: Testing the constraint, cost and shielding hypotheses in a wild mammal. 2018 , 32, 722-735		11
386	Melatonin reduces apoptotic cells, SOD2 and HSPB1 and improves the in vitro production and quality of bovine blastocysts. <i>Reproduction in Domestic Animals</i> , 2018 , 53, 226-236	1.6	12
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384	Flunixin meglumine improves pregnancy rate in embryo recipient beef cows with an excitable temperament. <i>Theriogenology</i> , 2018 , 107, 70-77	2.8	14
383	Lupeol supplementation improves the developmental competence of bovine embryos in vitro. <i>Theriogenology</i> , 2018 , 107, 203-210	2.8	11
382	Reduced glutathione alleviates tunicamycin-induced endoplasmic reticulum stress in mouse preimplantation embryos. 2018 , 64, 15-24		7
381	Beneficial role of melatonin in protecting mammalian gametes and embryos from oxidative damage. 2018 , 17, 2320-2335		5
380	Melatonin in Assisted Reproductive Technology: A Pilot Double-Blind Randomized Placebo-Controlled Clinical Trial. 2018 , 9, 545		15
379	Extracellular vesicles derived from endometrial human mesenchymal stem cells improve IVF outcome in an aged murine model. <i>Reproduction in Domestic Animals</i> , 2018 , 53 Suppl 2, 46-49	1.6	6
378	Antioxidant and developmental capacity of retinol on the in vitro culture of rabbit embryos. <i>Zygote</i> , 2018 , 26, 326-332	1.6	7
377	Dynamics of inflammatory reaction and oxidative stress across maternal serum, placenta and amniotic fluid in laboratory rats and the role played by genistein aglycone. 2018 , 30, 37-45		2
376	Melatonin Improves Oocyte Maturation and Mitochondrial Functions by Reducing Bisphenol A-Derived Superoxide in Porcine Oocytes In Vitro. 2018 , 19,		24
375	Physiological effects of various light spectra on oxidative stress by starvation in olive flounder, <i>Paralichthys olivaceus</i> . 2018 , 14, 399-408		9

374	Peroxiredoxin as a functional endogenous antioxidant enzyme in pronuclei of mouse zygotes. 2018 , 64, 161-171		3
373	Retinoic acid improves maturation rate and upregulates the expression of antioxidant-related genes in matured buffalo () oocytes. 2018 , 6, 279-285		13
372	Efficiency of different incubation systems for the in vitro production of bovine embryos. <i>Zygote</i> , 2018 , 26, 314-318	1.6	1
371	Generation of a sexually mature individual of the Eastern dwarf tree frog, , from cryopreserved testicular macerates: proof of capacity of cryopreserved sperm derived offspring to complete development. 2018 , 6, coy043		8
370	Sperm quality characteristics and fertilization capacity after cryopreservation of rooster semen in extender exposed to a magnetic field. 2018 , 198, 37-46		18
369	Maternal N-Carbamylglutamate Supply during Early Pregnancy Enhanced Pregnancy Outcomes in Sows through Modulations of Targeted Genes and Metabolism Pathways. 2018 , 66, 5845-5852		18
368	Bovine oviductal and uterine fluid support in vitro embryo development. 2018 , 30, 935-945		18
367	Effect of ferulic acid supplementation on the developmental competence of porcine embryos during in vitro maturation. 2018 , 80, 1007-1011		7
366	Physiological changes in the adenosine deaminase activity, antioxidant and inflammatory parameters in pregnant cows and at post-partum. 2018 , 102, 910-916		3
365	A simple but effective fluorescent probe with large stokes shift for specific detection of cysteine in living cells. 2018 , 363, 7-12		16
364	Resveratrol promotes the embryonic development of vitrified mouse oocytes after in vitro fertilization. 2018 , 54, 430-438		13
363	Regulation of lipid peroxidation and ferroptosis in diverse species. 2018 , 32, 602-619		183
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361	Tocopherol modifies the expression of genes related to oxidative stress and apoptosis during in vitro maturation and enhances the developmental competence of rabbit oocytes. 2018 , 30, 1728-1738		9
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355	Quinine inhibits ovulation and produces oxidative stress in the ovary of cyclic Sprague-Dawley rats. 2018 , 18, 253-259		2
354	Vitamin E as an Antioxidant in Female Reproductive Health. 2018 , 7,		34
353	Therapeutic Role of Green Tea Polyphenols in Improving Fertility: A Review. 2018 , 10,		25
352	Role of oxidative stress in pathology of chronic prostatitis/chronic pelvic pain syndrome and male infertility and antioxidants function in ameliorating oxidative stress. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 106, 714-723	7.5	43
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350	Antioxidant β -cryptoxanthin enhances porcine oocyte maturation and subsequent embryo development in vitro. 2018 , 30, 1204-1213		10
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348	Beta-cypermethrin exposure affects female reproduction by enhancing oxidative stress in mice uterine tissue. 2018 , 98, 284-290		8
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345	Treatment Strategy for Unexplained Infertility and Recurrent Miscarriage. 2018 ,		2
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334	Influence of N-acetyl-L-cysteine against bisphenol a on the maturation of mouse oocytes and embryo development: in vitro study. 2019 , 20, 43	8
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325	Antioxidant activity of oily extract obtained from Lippia origanoides improves the quality of bovine embryos produced in vitro. 2019 , 71, 723-731	3
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317	Is maternal dietary selenium intake related to antioxidant status and the occurrence of pregnancy complications?. 2019 , 54, 110-117		6
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315	Changes in key enzyme activities and metabolites during in vitro maturation of <i>Apostichopus japonicus</i> oocyte under desiccation stress. 2019 , 50, 400-411		
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311	Melatonin supplementation during in vitro maturation of oocyte enhances subsequent development of bovine cloned embryos. 2019 , 234, 17370-17381		48
310	Metabolic programming determines the lineage-differentiation fate of murine bone marrow stromal progenitor cells. 2019 , 7, 35		19
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307	Effect of the hematopoietic growth factors erythropoietin and kit ligand on bovine oocyte in vitro maturation and developmental competence. <i>Theriogenology</i> , 2019 , 123, 37-44	2.8	5
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304	Extracellular vesicles derived from endometrial human mesenchymal stem cells enhance embryo yield and quality in an aged murine model <i>Biology of Reproduction</i> , 2019 , 100, 1180-1192	3.9	23
303	Limited relationships between reactive oxygen species levels in culture media and zygote and embryo development. <i>Journal of Assisted Reproduction and Genetics</i> , 2019 , 36, 325-334	3.4	22

302	Depletion of thiols leads to redox deregulation, production of 4-hydroxynonenal and sperm senescence: a possible role for GSH regulation in spermatozoa <i>Biology of Reproduction</i> , 2019 , 100, 1090-1107	3.9	7
301	Effect of complexed trace minerals on cumulus-oocyte complex recovery and in vitro embryo production in beef cattle <i>1,2</i> . 2019 , 97, 1478-1490		8
300	Autologous endometrial cell co-culture improves human embryo development to high-quality blastocysts: a randomized controlled trial. 2019 , 38, 321-329		5
299	Strategies for improvement of cloning by somatic cell nuclear transfer. 2019 , 59, 1218		3
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291	Cryopreservation induces higher oxidative stress levels in <i>Bos indicus</i> embryos compared with <i>Bos taurus</i> . <i>Theriogenology</i> , 2020 , 143, 74-81	2.8	7
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282	Systematic oxidative stress is not associated with live birth rate in young non-obese patients with polycystic ovarian syndrome undergoing assisted reproduction cycles: A prospective cohort study. 2020 , 253, 154-161		1
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280	Epigenetic remodeling of chromatin in human ART: addressing deficiencies in culture media. <i>Journal of Assisted Reproduction and Genetics</i> , 2020 , 37, 1781-1788	3-4	5
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278	Extracellular Vesicles as Mediators of Environmental and Metabolic Stress Coping Mechanisms During Mammalian Follicular Development. <i>Frontiers in Veterinary Science</i> , 2020 , 7, 602043	3-1	5
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276	Heat stress on oocyte or zygote compromises embryo development, impairs interferon tau production and increases reactive oxygen species and oxidative stress in bovine embryos produced in vitro. 2020 , 87, 899-909		4
275	Effects of oxygen concentrations on developmental competence and transcriptomic profile of yak oocytes. <i>Zygote</i> , 2020 , 28, 459-469	1.6	1
274	Production of in vitro bovine embryos supplemented with l-carnitine in different oxygen tensions and the relation to nitric oxide. <i>Zygote</i> , 2020 , 28, 403-408	1.6	1
273	Leonurine improves in vitro porcine embryo development competence by reducing reactive oxygen species production and protecting mitochondrial function. <i>Theriogenology</i> , 2020 , 156, 116-123	2.8	4
272	Ionomycin-induced mouse oocyte activation can disrupt preimplantation embryo development through increased reactive oxygen species reaction and DNA damage. 2020 , 26, 773-783		4
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270	Cellular and functional adaptation to thermal stress in ovarian granulosa cells in mammals. 2020 , 92, 102688		4
269	Successful vitrification of early-stage porcine cloned embryos. 2020 , 97, 53-59		4
268	Low oxygen tension activates glucose metabolism, improves antioxidant capacity and augment developmental potential of ovine embryos in vitro. 2020 , 60, 503		2
267	N-(2-mercaptopropionyl)-glycine enhances in vitro pig embryo production and reduces oxidative stress. <i>Scientific Reports</i> , 2020 , 10, 18632	4.9	1

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265	Effect of nicotinamide supplementation in in vitro fertilization medium on bovine embryo development. 2020 , 87, 1070-1081		1
264	The dynamics between in vitro culture and metabolism: embryonic adaptation to environmental changes. <i>Scientific Reports</i> , 2020 , 10, 15672	4.9	6
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262	Pannexin 1 inhibition delays maturation and improves development of <i>Bos taurus</i> oocytes. 2020 , 13, 98		2
261	Selection of Immature Cat Oocytes with Brilliant Cresyl Blue Stain Improves In Vitro Embryo Production during Non-Breeding Season. 2020 , 10,		2
260	Severity of prepregnancy diabetes on the fetal malformations and viability associated with early embryos in rats \square <i>Biology of Reproduction</i> , 2020 , 103, 938-950	3.9	7
259	Metabolic Activity of Human Embryos after Thawing Differs in Atmosphere with Different Oxygen Concentrations. 2020 , 9,		0
258	Ethanol Extract of Dried Leaves from the Biome Increases the Cryotolerance of Bovine Embryos Produced. 2020 , 2020, 6046013		1
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255	Melatonin-Nrf2 Signaling Activates Peroxisomal Activities in Porcine Cumulus Cell-Oocyte Complexes. 2020 , 9,		8
254	Reactive oxygen species in reproduction: harmful, essential or both?. <i>Zygote</i> , 2020 , 28, 255-269	1.6	6
253	Beneficial Effects of Melatonin in the Ovarian Transport Medium on In Vitro Embryo Production of Iberian Red Deer (). 2020 , 10,		4
252	The role of honeybee pollen as a natural source of antioxidants in the in vitro maturation medium of sheep oocytes and its effect on gene expression. 2020 , 27, 31350-31356		0
251	Phthalate metabolites and biomarkers of oxidative stress in the follicular fluid of women undergoing in vitro fertilization. 2020 , 738, 139834		6
250	Removal of hypotaurine from porcine embryo culture medium does not impair development of in vitro-fertilized or somatic cell nuclear transfer-derived embryos at low oxygen tension. 2020 , 87, 773		2
249	Effect of crocetin added to IVM medium for prepubertal goat oocytes on blastocyst outcomes after IVF, intracytoplasmic sperm injection and parthenogenetic activation. <i>Theriogenology</i> , 2020 , 155, 70-76	2.8	4

248	Proteomics Analysis Reveals that Warburg Effect along with Modification in Lipid Metabolism Improves In Vitro Embryo Development under Low Oxygen. 2020 , 21,		8
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246	Listening to mother: Long-term maternal effects in mammalian development. 2020 , 87, 399-408		7
245	DMSO supplementation during in vitro maturation of bovine oocytes improves blastocyst rate and quality. <i>Theriogenology</i> , 2020 , 148, 140-148	2.8	4
244	The effects of melatonin on possible damage that will occur on adipocytokines and liver tissue by coadministration of fructose and bisphenol a (BPA). 2020 , 27, 16231-16245		4
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242	The effect of astaxanthin supplementation on the post-thaw quality of dog semen. <i>Reproduction in Domestic Animals</i> , 2020 , 55, 1163-1171	1.6	3
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239	Reproductive technologies in goats. 2020 , 55-66		2
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237	Connexin 43 Knockdown Induces Mitochondrial Dysfunction and Affects Early Developmental Competence in Porcine Embryos. 2020 , 26, 287-296		5
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234	Resveratrol treatment during maturation enhances developmental competence of oocytes after prolonged ovary storage at 4 °C in the domestic cat model. <i>Theriogenology</i> , 2020 , 144, 152-157	2.8	9
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221	A bibliometric analysis of obstetrics and gynecology articles with highest relative citation ratios, 1980 to 2019. 2021 , 3, 100293		6
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218	Boar sperm incubation with reduced glutathione (GSH) differentially modulates protein tyrosine phosphorylation patterns and reorganization of calcium in sperm, in vitro fertilization, and embryo development depending on concentrations. 2021 , 135, 386-396		0
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213	Scavenging reactive oxygen species is a potential strategy to protect against environmental hypoxia by mitigating oxidative stress. 2021 , 42, 592-605		1

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210	Impact of Heat Stress on Embryonic Implantation. 2021 , 99-112		0
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206	Cellular and molecular alterations of buffalo oocytes cultured under two different levels of oxygen tension during maturation. <i>Zygote</i> , 2021 , 29, 314-324	1.6	
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203	Lipid Metabolism in Bovine Oocytes and Early Embryos under In Vivo, In Vitro, and Stress Conditions. 2021 , 22,		7
202	Getting to Know Endometriosis-Related Infertility Better: A Review on How Endometriosis Affects Oocyte Quality and Embryo Development. 2021 , 9,		5
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198	Improvement of bovine in vitro embryo production by fetal calf serum and cysteamine supplementation and investigation of freezability.		
197	Hepatic Accumulation of Hypoxanthine: A Link Between Hyperuricemia and Nonalcoholic Fatty Liver Disease. 2021 , 52, 692-702		1
196	Embryo Metabolism and What Does the Embryo Need?. 2021 , 30-41		
195	Transcriptional Profiling of Porcine Blastocysts Produced In Vitro in a Chemically Defined Culture Medium. 2021 , 11,		0

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193	Improving the quality and in vitro fertilization rate of frozen-thawed semen of buffalo (<i>Bubalus bubalis</i>) bulls with the inclusion of vitamin B in the cryopreservation medium. 2021 , 229, 106761		1
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182	Oviduct epithelial cells constitute two developmentally distinct lineages that are spatially separated along the distal-proximal axis. 2021 , 36, 109677		5
181	Role of adipokines in embryo implantation. 2021 , 10, R267-R278		0
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179	The Role of Oxidative Stress and Antioxidant Balance in Pregnancy. 2021 , 2021, 9962860		9
178	A standardized extract of <i>Asparagus officinalis</i> stem improves HSP70-mediated redox balance and cell functions in bovine cumulus-granulosa cells. <i>Scientific Reports</i> , 2021 , 11, 18175	4.9	0
177	Antioxidant and Infertility.		

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174	Antioxidants in Female Reproductive Biology.		2
173	Effect of lycopene supplementation to bovine oocytes exposed to heat shock during in vitro maturation. <i>Theriogenology</i> , 2021 , 173, 48-55	2.8	4
172	Maternal overweight increased sensitivity of mouse preimplantation embryos to oxidative stress in vitro. 2021 , 105, 62-71		0
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